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Lake Okeechobee Watershed Project Configuration Summary Sheet

Configuration Name: Establish a Unique and Descriptive Name of the Proposed Configuration.

ESTUARY DISCHARGE REDUCTION

Author(s) of the Configuration: Identify the name of the Authors that developed the Configuration during the exercise.

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Configuration's General Description: This description should be able to convey the general aspects, elements, and general location of management measures in this configuration.

The plan includes a combination of underground storage & disposal plus shallow and deep reservoirs designed to capture up to 1.5 ~~million~~ ^{to} million acre feet. The primary goal is to significantly decrease the freq. of harmful estuary discharges while meeting natural system & water supply targets in Lake O. The plan also includes regional wetland habitat restoration

Management Measures: List the management measures used in the configuration (Reservoirs, ASR, Wetland/Floodplain Restoration).

6 clusters of multiple co-located ASR & Deep wells; 2 large deep wells at Taylor Creek & Istokpaga; shallow reservoir in prairie & wetland restoration on the Kissimmee @ Paradise run & S of the S-65E

How Water Flows Through the Configuration: This description should identify the travel route of the water that the configuration will be managing. Identify where the water is coming from and where it goes. Generally describe how the water gets from the originating water source (for example, which existing canals/tributaries are used or if new conveyance features are needed) to the final destination of the water.

All storage features are located adjacent to CFSF Canals. Water is diverted into surface & and underground storage or disposal features during the wet season. Return flow to meet WS targets & restoration targets is during the dry season.

Objectives: Identify and prioritize (rank) the specific LOWP Objectives that the configuration is intended to meet (use the list of Objectives as needed).

- 1) Estuary discharge reduction
- 2) Lake O level mgmt.
- 3) Wetland restoration

Anticipated Benefits General Description: Identify why the Author(s) chose the features in the configuration. List, prioritize and provide a general description of any benefits anticipated from the Proposed Configuration.

Significant reductions in the frequency of harmful lake discharges to the estuaries. Improved WQ and lake ecology will result from P load reductions & more favorable lake levels. Wetland habitats will have greater spatial expansion throughout the system.

Operating Assumptions General Description: List anything specifically that the Author(s) want relative to the operation of the configuration.

ASR can store 6,700 ac-ft per year per well. Deep well can dispose of 21,000 ac-ft per well per year. The wells can be co-located to combine flexibility between water supply & discharge reduction measures. The above ground reservoirs can provide storage & when co-located with wells can maximize storage. The deep wells can be quickly implemented within 3 years & can transition to ASR as technology advances.

Other Key Elements: List the main Considerations that have not been mentioned elsewhere on this form. Examples may include potential Recreational Opportunities or Concerns.

The deep wells can be operated as an instantaneous ~~site~~ disposal. 30 cfs wells totalling up to 80 in number can dispose of up to 2,400 cfs which provides an emergency outlet during high lake events.

The ASR & Deep well ~~sites~~ are clusters of multiple wells depending on site specific hydrogeology.

ASR feasibility = 80 wells @ 5MGD

Deep well feasibility = 80 wells @ 16MGD